

## ABSTRACT OF DISCLOSURE

038 The Automatic Furnace is a method for maintaining a desired CO, NO, or temperature range at the flue of a multiburner furnace. and includes delivering a the largest oxidant flow rate to the burners while repeatedly sequencing through the plurality of sequential flue parameter (delete doses) concentrations beginning with the lowest flue parameter (delete dose) concentration and proceeding to an adjacent flue parameter (delete dose) concentration in sequence after a predetermined time interval has elapsed. The largest oxidant (delete dosage) flow rate is delivered until the flue parameter level attains the desirable range, at which point corresponding oxidant (delete doses) flow rates and flue parameter (delete doses) concentrations are selected from the plurality of sequential oxidant (delete doses) flow rates and flue parameter (delete doses) concentrations. The method also includes delivering the selected oxidant (delete dose) flow rate and consequential flue parameter concentration (delete dose) so as to maintain the desired flue parameter range.